

What is claimed is:

1. A method for manufacturing a white light emitting device comprising the steps of:

classifying wavelengths and luminances of lights
5 emitted from light emitting elements into ranks respectively;

providing various kinds of combinations of a fluorescent material for converting the wavelength of the light emitted from the light emitting element and a
10 luminance reducing material for adjusting the luminance of the light, in accordance with the rank classification of the wavelength and luminance of the light;

manufacturing a plurality of cover members, in each of the cover members a fluorescent material and a luminance
15 reducing material of one of combinations are mixed;

selecting the light emitting element and the cover member;

integrating the selected light emitting element and cover member.

20 2. The method according to claim 1 wherein both the phosphor particles and luminance reducing material are included in a same cover member.

3. The method according to claim 1 wherein the cover member comprises a first cover member mixing the
25 fluorescent material, and a second cover member mixing the luminance reducing member.

4. The method according to claim 1 wherein the case member is formed with elastomer of silicon group in which

the fluorescent material and the luminance reducing material are mixed.

5. The method according to claim 1 wherein the luminance reducing material is pigment or dye for reducing the luminance irrespective of the wavelength of the light emitting from the light emitting element.

6. The method according to claim 1 wherein the light emitting element is mounted on a substrate to be integrated with the substrate as a light emitting element unit.

7. A method for manufacturing a white light emitting device comprising the steps of:

measuring chromaticities and luminances of lights emitted from a plurality of blue light emitting elements;

15 classifying the measured chromaticities and luminances of lights emitted from the light emitting elements into ranks respectively;

manufacturing a plurality of cover members, which are different from each other in accordance with the rank classification of the blue light emitting elements;

20 combining the blue light emitting element and the cover member which are suitable to be combined according to the ranking; and

setting the combined blue light emitting element and cover element in a case body in an integrated state.

8. A method for manufacturing a white light emitting device comprising the steps of:

measuring chromaticities and luminances of lights

emitted from a plurality of blue light emitting elements;
classifying the measured chromaticities and
luminances of lights emitted from the light emitting
elements into ranks respectively;

5 manufacturing a case assembly having a plurality of
case bodies;

mounting a plurality of blue light emitting elements
belonging to a same rank in case bodies;

manufacturing a plurality of cover members including
10 various fluorescent materials and luminance reducing
materials;

securing cover members having a same condition as the
blue light emitting elements mounted on the case assembly
to the case bodies to produce complete light emitting
15 devices; and

separating the complete light emitting devices from
the case assembly.

9. The method according to claim 8 wherein cover
members corresponding to the case bodies on the case
20 assembly are connected with each other to form a cover
member assembly, each of the cover members is located at a
position corresponding to a case body on the case assembly.

10. The method according to claim 8 wherein the
fluorescent materials and the luminance reducing materials
25 in the cover members in the cover member assembly are nearly
identical in mixing condition.

11. The method according to claim 7 or 8 wherein the
case body has a recess having a reflection face, and the light

emitting element is mounted on a bottom of the recess, and the cover member is mounted in the recess.

12. The method according to claim 1 or 7 or 8 wherein the light emitting element is an LED of InGaN group.

5 13. The method according to claim 12 wherein the fluorescent material is a fluorescent material of YAG group.

14. The method according to claim 12 wherein the luminance reducing material is a pigment of black.

10 15. The method according to claim 7 or 8 wherein the case body comprises a pair of metal cores, the surface of the metal cores are coated with bright plating.